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United States Department of Agriculture,

WASHINGTON, D. C., *April 30, 1917.*

MONTHLY LIST OF PUBLICATIONS.

[APRIL, 1917.]

READ CAREFULLY BEFORE ORDERING.

A copy of any of the publications listed herein, except those otherwise noted, may be obtained free upon application to the Editor and Chief of the Division of Publications, United States Department of Agriculture, Washington, D. C., as long as the department's supply lasts.

After this department's supply is exhausted, publications can still be obtained from the Superintendent of Documents, Government Printing Office, Washington, D. C., but by purchase only, and at the prices noted herein.

Send all remittances to the Superintendent of Documents direct. His office is not a part of the Department of Agriculture.

SPECIAL NOTICE.

Before mailing your request be sure and see that your name and complete postoffice address (street number or rural route number as the case may be) is attached.

FARMERS' BULLETINS—FOR FREE DISTRIBUTION.

☞NOTE.—The department's supply of the current numbers of Farmers' Bulletin is ordinarily sufficient to make it possible to send them free to all applicants. They are also for sale at 5 cents per copy.

The Windbreak as a Farm Asset. By Carlos G. Bates, Forest Examiner. Pp. 16, figs. 8. Contribution from the Forest Service. April, 1917. **(Farmers' Bulletin 788.)**

Shows the necessity for windbreaks and the results obtained by planting them.

Aphids Injurious to Orchard Fruits, Currant, Gooseberry, and Grape. By A. L. Quaintance, Entomologist in Charge of Deciduous Fruit Insect Investigations, and A. C. Baker, Entomological Assistant. Pp. 42, figs. 30. Contribution from the Bureau of Entomology. April, 1917. **(Farmers' Bulletin 804.)**

Is of interest to orchardists, vineyardists, and growers of currants and gooseberries in all parts of the United States.

Bread and Bread Making in the Home. By Caroline L. Hunt, Scientific Assistant, Office of Home Economics, States Relations Service, and Hannah L. Wessling, Assistant Chemist, Bureau of Chemistry. Pp. 26, figs. 2. Contribution from the States Relations Service. April, 1917. **(Farmers' Bulletin 807.)**

Of special interests to housekeepers.

DEPARTMENT BULLETINS—TECHNICAL.

☞The publications listed below are technical or scientific treatises or bulletins applying to a special industry or locality. The edition is limited, but they will be furnished free to persons who can use such specialized informaton as long as the supply lasts. However, to insure prompt receipt, remit price to the Superintendent of Documents.

Marketing and Distribution of Strawberries in 1915. By O. W. Schleussner and J. C. Gilbert, Assistant in Market Surveys. Pp. 32, figs. 15. Contribution from the Office of Markets and Rural Organization. Apr. 2, 1917. **(Department Bulletin 477.)** Price, 10 cents.

Of interest to strawberry growers, shippers, transportation companies, and consumers, and to all engaged in the trade in berries and fruits.

Control of the Gipsy Moth by Forest Management. Part 1. The Gipsy Moth in Woods. By G. E. Clement, Assistant in Forest Management. Part 2. Management of Typical Woodlots Infested with the Gipsy Moth in the White-Pine Region. By Willis Munro, Assistant in Forest Management. Pp. 54, map. Contribution from the Bureau of Entomology in cooperation with the Forest Service. (Professional Paper.) Apr. 9, 1917. **(Department Bulletin 484.)** Price, 20 cents.

Suitable for distribution in regions infested with this insect.

Tests of Western Yellow Pine Car Sills, Joists, and Small Clear Pieces. By C. W. Zimmerman, Engineer in Forest Products. Pp. 16, pl. 1, figs. 4. Contribution from the Forest Service in cooperation with the University of Washington. (Professional Paper.) Apr. 4, 1917. **(Department Bulletin 497.)** Price, 5 cents.

Of interest to builders and engineers.

The Drainage of Irrigated Shale Land. By Dalton G. Miller, Senior Drainage Engineer, and L. T. Jessup, Junior Drainage Engineer. Pp. 40, pls. 9, figs. 7. Contribution from the Office of Public Roads and Rural Engineering. (Professional Paper.) Apr. 23, 1917. **(Department Bulletin 502.)** Price, 15 cents.

Contains information on the drainage of those irrigated lands of the Rocky Mountain States that are underlain by shale.

Production of Lumber, Lath, and Shingles in 1915, and Lumber in 1914. By J. C. Nellis, Forest Examiner. Pp. 45, pls. 2, figs. 4. Contribution from the Forest Service. (Professional Paper.) Apr. 21, 1917. **(Department Bulletin 506.)** Price, 10 cents.

Of interest to lumbermen and builders generally.

Prevention of the Erosion of Farm Lands by Terracing. By C. E. Ramser, Drainage Engineer. Pp. 40, pls. 8, figs. 17. Contribution from the Office of Public Roads and Rural Engineering. (Professional Paper.) Apr. 5, 1917. **(Department Bulletin 512.)** Price, 15 cents.

This bulletin treats of terracing as a means of preventing erosion of hillside land. It describes the different types of terraces and points out the applicability of each to the various kinds of soil and topography. It discusses the principles of terrace design. While the investigations upon which the recommendations are based were made in the Southern States, the information is applicable generally to any State in the humid section.

Experiments in the Determination of the Digestibility of Millets. By C. F. Langworthy, Chief, and A. D. Holmes, Scientific Assistant, Office of Home Economics. Pp. 9. Contribution from the States Relations Service. (Professional Paper.) Apr. 7, 1917. **(Department Bulletin 525.)** Price, 5 cents.

This is a technical report of studies of the digestibility of millet in relation to its use as food and is of special interest to investigators and students of human nutrition.

Seasonal Distribution of Farm Labor in Chester County, Pa. By George A. Billings, Agriculturist. Pp. 29, figs. 3. Contribution from the Office of Farm Management. Apr. 13, 1917. **(Department Bulletin 528.)** Price, 10 cents.

Of interest to farmers generally.

Validity of the Survey Method of Research. By W. J. Spillman, Chief, Office of Farm Management. Pp. 15. Contribution from the Office of Farm Management. (Professional Paper.) Apr. 5, 1917. **(Department Bulletin 529).** Price, 5 cents.

A study of the accuracy of farm records obtained in farm management investigations.

The Results of Physical Tests of Road-Building Rock in 1916, Including All Compression Tests. By Prevost Hubbard, Chemical Engineer, and Frank H. Jackson, Jr., Assistant Testing Engineer. Pp. 23. Contribution from the Office of Public Roads and Rural Engineering. (Professional Paper.) Apr. 21, 1917. **(Department Bulletin 537.)** Price, 5 cents.

Is a supplement to Department Bulletin 370, and of interest to road engineers and contractors.

MISCELLANEOUS.

Report of the Hawaii Agricultural Experiment Station, 1916. Pp. 46, pls. 6. Apr. 6, 1917. Price, 10 cents.

SERIALS.

Journal of Agricultural Research. (For sale only.) Vol. 9, No. 1. April 2, 1917. Contents: A New Bacterial Citrus Disease. (hp Cal.–10.) By H. Atherton Lee.—Some Facts about Abortion Disease. (hr A–29.) By E. C. Schroeder and W. E. Cotton.—Wheat-Sheath Miner. (hm Mont.–5.) By H. L. Seamans. Pp. 1–25, pls. 3, fig. 1. Price, 10 cents.

Same, Vol. 9, No. 2. April 9, 1917. Contents: Relation of the Water-Retaining Capacity of a Soil to Its Hygroscopic Coefficient. (hs Minn.–12.) By Frederick J. Alway and Guy R. McDole. Pp. 27–71, fig. 1. Price, 10 cents.

Same, Vol. 9, No. 3. April 16, 1917. Contents: Absorption of Nutrients as Affected by the Number of Roots Supplied with the Nutrient. (hu B–13.) By P. L. Gile and J. O. Carrero. Pp. 73–95, figs. 2. Price, 10 cents.

Same, Vol. 9, No. 4. Apr. 23, 1917. Contents: Flow Through Submerged Rectangular Orifices with Modified Contractions. (ht D–9.) By V. M. Cone.—The Venturi Flume. (hx D–10.) By V. M. Cone. Pp. 97–129, figs. 27. Price, 15 cents.

Same, Vol. 9, No. 5. Apr. 30, 1917. Contents: Morphology of Normal Pigs' Blood. (hy Minn.–13.) By C. C. Palmer.—Fixation of Ammonia in Soils. (hv G–108.) By I. G. McBeth. Pp. 131–155, fig. 1. Price, 10 cents.

☞NOTE.—The Journal of Agricultural Research prints technical reports of original research, is issued weekly, and is distributed to the libraries of agricultural colleges and experiment stations, to large universities, technical schools, and such institutions as make suitable exchanges with the Department. It will not be sent free to individuals. The Superintendent of Documents will receive subscriptions for this publication, the price being $3 per year (52 numbers).

Experiment Station Record. Vol. XXXVI, No. 4, March, 1917. E. W. Allen, Ph. D., Editor. Pp. 301–400. Price, 15 cents.

☞NOTE.—The Record is a technical review of the world's scientific literature pertaining to agriculture. It is not intended for general distribution, and its free distribution is restricted to persons connected with the agricultural colleges, experiment stations, and similar institutions, and to libraries and exchanges. It can not be sent free to individuals having no official connection with public institutions. The Superintendent of Documents will receive subscriptions for this publication, which is issued in two volumes a year, 10 numbers each, at $1 a volume.

Same, Vol. 36, No. 5. April, 1917. Pp. 401–500. Price, 15 cents.

The Monthly Crop Report. Vol. 3, No. 4, April, 1917. Pp. 29–36. (Bureau of Crop Estimates.)

Contains data relating to agriculture, including estimates of acreage, conditions, yield, prices, and value of crops and live stock. For free distribution.

SERVICE AND REGULATORY ANNOUNCEMENTS—FOR SALE ONLY.

☞These contain *only* information, instructions, and notices governing the enforcement of food and drugs act, meat inspection, 28-hour and quarantine laws, and the various regulations of the department. Issued monthly by certain bureaus. *Free distribution* is limited to persons in the employ of the department, to public officials whose duties render it necessary for them to have such information, to journals especially concerned, and to manufacturers and firms whose business is affected by same. Others desiring copies are repectfully referred to the Superintendent of Documents, Government Printing Office, who has them for sale *only*, at prices noted.

Bureau of Animal Industry. No. 119. March, 1917. Pp. 29–37. Apr. 19, 1917. Price, 5 cents.

Bureau of Chemistry. Supplement No. 23. [N. J. 4601–4650.] Pp. 145–201. Apr. 27, 1917. Price, 10 cents.

SOIL SURVEYS.

☞All requests for soil surveys are referred to the Bureau of Soils for attention, the distribution of same being controlled by that bureau.

Soil Survey of Buchanan County, Missouri. By B. W. Tillman, of the U. S. Department of Agriculture, and C. E. Deardorff, of the University of Missouri. Pp. 46, fig. 1, map. (From F. O. Soils, 1915.) Price, 15 cents.

Soil Survey of Polk County, Nebraska. By J. M. Snyder, of the U. S. Department of Agriculture, and Thomas E. Kokjer, of the Nebraska Soil Survey. Pp. 30, fig. 1, map. (From F. O. Soils, 1915.) Price, 10 cents.

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Soil Survey of the Camden Area, New Jersey. By A. L. Patrick, of the U. S. Department of Agriculture, C. C. Engle, of the Geological Survey of New Jersey, and L. L. Lee, of the New Jersey Agricultural Experiment Station. Pp. 45, pls. 5, figs. 3, map. (From F. O. Soils, 1915.) Price, 15 cents.

Soil Survey of Hamilton County, Ohio. By A. L. Goodman, of the U. S. Department of Agriculture, and E. R. Allen and S. W. Phillips, of the Ohio Agricultural Experiment Station. Pp. 39, fig. 1, map. (From F. O. Soils, 1915.) Price, 15 cents.

SEPARATES.

Color as an Indicator of the Picking Maturity of Fruits and Vegetables. By L. C. Corbett. Bureau of Plant Industry. Pp. 8, pls. 6. **(Separate 686, Yearbook, 1916.)** Price, 10 cents.

Farm Tenantry in the United States. By W. J. Spillman and E. A. Goldenweiser, Office of Farm Management. Pp. 26, figs. 8. **(Separate 715, Yearbook, 1916.)** Price, 5 cents.

PUBLICATIONS OF THE WEATHER BUREAU.

☞Publications of the Weather Bureau are obtainable only from the Chief of the Weather Bureau or the Superintendent of Documents, Government Printing Office, at the prices noted herein.

Monthly Weather Review. (For sale only.) Vol. 45, No. 1. January, 1917. Pp. 1–46, charts 9, figs. 3. Price, 25 cents a copy, $2.50 a year. Payable to the Superintendent of Documents.

Special Articles: Solar and sky radiation measurements during January, 1917. By H. H. Kimball.—Notes on the horizontal rainbow. By Saemontarô Nakamura.—Aurora of August 26, 1916, observed at Hessel, Mich. By F. E. Nipher.—Relation of the weather to the amount of cotton ginned during certain periods. By J. B. Kincer.—Grasshoppers at sea. By W. E. Hurd.—National Meteorological Service of Colombia.—Another "Dark Day of May 19, 1780"?—Alternate deposition of rauhreif and rauheis. By W. R. Blair.

Monthly Weather Review. (For sale only.) Supplement No. 5. Aerology No. 2. Mar. 31, 1917. Pp. 59, figs. 6. Price, 25 cents.

Contents: Free-Air Data at Drexel Aerological Station, January, February, and March, 1916. By William R. Blair and others.

National Weather and Crop Bulletin, No. 3, March, Nos. 4, 5, 6, April, 1917, reporting temperature, rainfall, and crop conditions throughout the United States. Issued weekly, on Wednesday, April to October; monthly remainder of year. Price, 25 cents a year.

Snow and Ice Bulletins for April 3, 1917. These bulletins are issued weekly during the winter season, based upon data from regular Weather Bureau stations, supplemented by report from selected cooperative observers Price, 25 cents a year.

JOS. A. ARNOLD,
Editor and Chief, Division of Publications.

WASHINGTON: GOVERNMENT PRINTING OFFICE: 1917